

POTOMAC RIVER BASIN

01614830 OPEQUON CREEK NEAR STEPHENS CITY, VA

LOCATION.--Lat 39°06'32", long 78°12'18", NAD83, Frederick County, Hydrologic Unit Code 02070004, on right bank, 5 ft upstream from Highway 11, 1.5 mi north of Stephens City.

DRAINAGE AREA.--Not determined.

PERIOD OF RECORD.--December 2000 to September 2001.

GAGE.--Water stage recorder. Datum of gage is 705 ft above sea level, from topographic map..

REMARKS.--Records good except those for period with ice effect, Dec. 21, and period of partial gage height record, Mar. 31 to Apr. 1, which are fair.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	2.3	6.4	3.9	e12	6.1	5.7	3.8	2.8	3.1
2	---	---	---	2.3	6.0	3.9	11	5.9	5.3	3.7	2.7	2.9
3	---	---	---	2.3	5.5	3.9	9.9	5.7	5.0	3.8	2.5	2.9
4	---	---	---	2.3	5.3	4.1	9.4	5.6	4.9	4.1	3.5	2.8
5	---	---	---	2.3	5.2	4.6	9.1	5.5	5.4	4.4	3.4	2.8
6	---	---	2.7	2.3	5.1	4.5	9.3	5.4	5.6	3.9	2.9	2.7
7	---	---	2.9	2.4	5.0	4.4	9.7	5.3	6.2	3.4	2.7	2.7
8	---	---	2.6	2.5	5.0	4.3	8.9	5.1	5.6	4.4	2.6	2.6
9	---	---	2.5	2.4	4.7	4.3	8.6	5.1	4.7	3.8	2.5	2.6
10	---	---	2.5	2.3	4.2	4.2	8.4	4.8	4.5	3.8	2.5	2.6
11	---	---	2.6	2.3	4.1	4.1	14	5.0	4.4	3.9	3.9	2.7
12	---	---	2.4	2.3	4.1	4.1	12	4.6	4.3	3.7	6.9	2.4
13	---	---	2.2	2.3	4.0	4.5	9.9	4.5	5.2	3.5	5.5	2.4
14	---	---	3.5	2.4	4.3	4.2	9.1	4.3	5.2	3.1	4.4	2.5
15	---	---	3.0	2.4	4.4	4.5	9.0	4.7	5.5	2.9	3.5	2.4
16	---	---	3.0	2.4	4.6	4.5	11	4.7	5.9	2.8	3.3	2.4
17	---	---	4.4	2.4	4.5	4.3	9.4	4.8	4.9	2.8	3.2	2.2
18	---	---	3.5	2.5	4.1	4.1	8.6	4.7	4.3	3.5	3.1	2.1
19	---	---	2.9	3.8	4.3	4.1	8.2	5.1	4.2	3.2	3.2	2.1
20	---	---	2.6	5.3	4.1	4.4	8.0	4.6	4.6	3.0	5.1	2.4
21	---	---	e2.5	4.8	3.8	18	7.9	5.2	4.3	2.8	3.4	2.5
22	---	---	2.5	4.2	3.8	17	7.8	5.7	4.5	2.8	3.1	2.1
23	---	---	2.3	4.1	3.9	11	7.7	6.0	4.7	2.7	3.2	2.0
24	---	---	2.3	4.0	4.0	9.6	7.4	4.7	4.1	2.6	3.2	2.2
25	---	---	2.4	3.8	4.1	8.8	7.2	4.8	3.8	2.6	3.0	2.7
26	---	---	2.3	3.3	4.0	8.3	7.0	6.6	4.0	2.7	3.2	2.1
27	---	---	2.3	3.3	4.0	7.9	7.0	12	4.0	2.7	3.1	2.0
28	---	---	2.3	3.2	4.2	7.4	6.7	7.2	3.9	2.6	3.0	2.0
29	---	---	2.3	3.3	---	8.4	6.4	6.1	3.6	3.6	2.9	2.0
30	---	---	2.3	9.9	---	27	6.2	6.1	4.2	3.7	2.9	1.9
31	---	---	2.2	7.6	---	e14	---	6.0	---	3.1	3.6	---
TOTAL	---	---	---	103.0	126.7	222.3	266.8	171.9	142.5	103.4	104.8	72.8
MEAN	---	---	---	3.32	4.53	7.17	8.89	5.55	4.75	3.34	3.38	2.43
MAX	---	---	---	9.9	6.4	27	14	12	6.2	4.4	6.9	3.1
MIN	---	---	---	2.3	3.8	3.9	6.2	4.3	3.6	2.6	2.5	1.9

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STATISTICS OF MONTHLY MEAN DATA FOR WATER YEAR 2001

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	---	---	---	3.32	4.53	7.17	8.89	5.55	4.75	3.34	3.38	2.43
MAX	---	---	---	3.32	4.53	7.17	8.89	5.55	4.75	3.34	3.38	2.43
(WY)	---	---	---	2001	2001	2001	2001	2001	2001	2001	2001	2001
MIN	---	---	---	3.32	4.53	7.17	8.89	5.55	4.75	3.34	3.38	2.43
(WY)	---	---	---	2001	2001	2001	2001	2001	2001	2001	2001	2001

SUMMARY STATISTICS

FOR 2001 WATER YEAR

HIGHEST DAILY MEAN	27	Mar 30
LOWEST DAILY MEAN	1.9	Sep 30
ANNUAL SEVEN-DAY MINIMUM	2.1	Sep 24
MAXIMUM PEAK FLOW	46	Mar 30
MAXIMUM PEAK STAGE	4.04	Mar 30
INSTANTANEOUS LOW FLOW	a1.2	Dec 31
10 PERCENT EXCEEDS	8.2	
50 PERCENT EXCEEDS	4.0	
90 PERCENT EXCEEDS	2.3	

a Result of freezeup.

e Estimated.

